

ABSTRACT

The anion generator of the present invention is mainly composed of casing, interior circuit, ion emitting head etc.. The casing comprise insulating case and conducting protective grille, the interior circuit mainly comprise power circuit and oscillation boosting circuit. The power circuit is comprised of AC power supply circuit and DC power supply circuit, which supply power for the oscillation boosting circuit alternately through change-over switch.. The oscillation boosting circuit is composed of oscillation circuit, boosting circuit and multilevel dual voltage circuit. The character of the present invention is that, the conducting protective grille fixed on the casing has charge, so the diffusion of anion is accelerated; the said boosting circuit employs sheet piezoelectric ceramic transformer for boosting, which is simple in structure, small in volume and without protective circuit; and protective resistance is connected between the multilevel dual voltage circuit and ion emitting head. The circuit, casing and conducting protective grille of the invention is novel , so it's small and no protective circuit, high boosting ratio, safe and stabilized, low electromagnetic interference, fireretardant. The present invention could be used for the production of air-conditioner, vehicular and household electric appliances, beautification and health protection etc..